COMPUTATION OF ASTRONOMIC AZIMUTH BY ALTITUDE METHOD (FED MSR)

For use of this form, see FM 6-2; the proponent agency is TRADOC.

COMPUTER:	NOTEBOOK REFERENCE:	DATE:
CHECKER:	AREA:	SHEET OF SHEETS

INSTRUCTIONS	NOTES
1. Select SURVEY CALC (option B) from the MODE MENU.	1. Press ENTER to display the window of legal entries
2. Select ALTITUDE METHOD SUN (option E) or STAR (option F) from the SURVEY CALCULATIONS MENU	2. Enter field data in blocks marked ▶
3. Select the desired record from the ALTITUDE METHOD SUN/STAR SUMMARY LIST.	3. Remove window of legal entries by pressing ENTER before pressing the C key to calculate.
4. Observe the required fields, and enter the desired data.	

REQUIRED FIELDS / DATA RECORD

REQUIRED FIELDS	DATA RECORD	
NAME AZIMUTH MARK: ?	NAME AZ MK:	APPROX AZIMUTH TO AZIMUTH MARK (MILS):
		STAR POSITION: ? EAST WEST
NAME OBS STATION: ?	NAME OBS STA:	STAR NO/NAME: ?
		4TH/5TH ORDER: ? 4TH 5TH
ENTER GRID ZONE: ?	GRID ZONE:	TEMPERATURE:
ENTER LATITUDE: ?	LATITUDE: ° , " N / S	
ENTER LONGITUDE: ?	LONGITUDE: ° , " E / W	
ENTER DECLINATION: ?	DECLINATION: ° , " + / -	
ENTER DAILY CHANGE OF DECLN: ?	DAILY CHANGE (SECONDS): + / - (SUN ONLY)	

ENTER WATCH CORRECTION: ?	WATCH CORRECTIONS: HOURS (SLOW) + (SUN ONLY) (FAST) -	MINUTES	SECONDS

ENTER TIME ZONE CORRECTION: ?	TIME ZONE CORRECTION: (SUN ONLY) + / -	
DAYLIGHT SAVINGS TIME (Y/N): ?	ENTER Y OR N (SUN ONLY)	

	SET ____			SET ____			SET ____		
	HOURS	MINUTES	SECONDS	HOURS	MINUTES	SECONDS	HOURS	MINUTES	SECONDS
ENTER MEAN WATCH TIME: ? (SUN ONLY)	▶			▶			▶		
ENTER VERT ANGLE TO SUN/STAR: ?	VERT ANGLE (MILS): ▶			VERT ANGLE (MILS): ▶			VERT ANGLE (MILS): ▶		
ENTER REFRACTION: ?	ENTER AS +: MILS			ENTER AS +: MILS			ENTER AS +: MILS		
ENTER HORZ AZMK TO SUN/STAR: ?	HORZ ANGLE (MILS): ▶			HORZ ANGLE (MILS): ▶			HORZ ANGLE (MILS): ▶		

RECORD OBS 1 ASTRO AZ TO AZMK: ?	ASTRONOMIC AZ (MILS):	REMARKS:
RECORD OBS 2 ASTRO AZ TO AZMK: ?	ASTRONOMIC AZ (MILS):	
RECORD OBS 3 ASTRO AZ TO AZMK: ?	ASTRONOMIC AZ (MILS):	
RECORD MEAN ASTRO AZ TO AZMK: ?	MEAN ASTRONOMIC AZ (MILS):	
RECORD GRID AZ TO AZMK: ?	GRID AZIMUTH (MILS):	

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ALPHABETICAL STAR LIST

STAR NAME	NO	MAG	STAR NAME	NO	MAG	STAR NAME	NO	MAG
ACAMAR	12	3.4	CAPH	2	2.4	MIRFAK	14	1.9
ACHERNAR	9	0.5	CASTOR	28	1.5	MIZAR	46	2.4
ACRUX	42	1.0	DENEB	68	1.3	NUNKI	65	2.1
ADHARA	26	1.6	DENEBOLA	39	2.2	NU	69	3.7
ALDEBARAN	15	1.1	DIPHDA	6	2.2	PEACOCK	67	2.1
ALHENA	24	1.9	DSCHUBBA	56	2.5	PHECDA	40	2.5
ALIOTH	45	1.7	DUBHE	38	1.9	POLARIS	10	2.1
ALKAID	48	1.9	ELNATH	19	1.8	POLLUX	30	1.2
AL NA'IR	71	2.2	ELTANIN	62	2.4	PROCYON	29	0.5
ALNILAM	20	1.7	ENIF	70	2.5	RASALHAGUE	51	2.1
ALNITAK	21	2.0	FORMALHAUT	72	1.3	REGULUS	35	1.3
ALPHARD	35	2.2	GACRUX	43	1.6	RIGEL	16	0.3
ALPHECCA	55	2.3	GAMMA CASSIOPEIAE	7	1.6-2.8	RIGIL KENTAURUS	52	0.1
ALPHERATZ	1	2.1	GAMMA VELORUM	31	1.9	RUCHBUH	8	2.8
ALTAIR	66	0.9	GIENAH	41	2.8	SABIK	59	2.6
ANKAA	4	2.4	HADAR	49	0.8	SCAULA	60	1.7
ANTARES	57	1.2	HAMAL	11	2.2	SCHEDAR	5	2.3
ARCTURUS	51	0.2	KAUS AUSTRALIS	63	1.9	SIRIUS	25	-1.6
ATRIA	58	1.9	KOCHAB	54	2.2	SPICA	47	1.2
AVIOR	32	1.7	MARKAB	73	2.6	SUHAIL	33	2.2
BELLATRIX	18	1.7	MENKAR	13	2.8	VEGA	64	0.1
BETA HYDRUS	3	2.9	MANKENT	50	2.3	WEZEN	27	2.0
BETELGEUSE	22	0.1	MEPAK	37	2.4	ZEBENELGENUBI	53	2.9
CANOPUS	23	-0.9	MISPLACIDUS	34	1.8			
CAPELLA	17	0.2	MIMOSA	44	1.5			

REMARKS:

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